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REPORT NO. 7

**Cotton Fiber and Processing Test Results**

CROP of

**1973**



**Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38117 November 23, 1973**

This is the seventh of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.



## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

### Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report samples tested through November 16 on short staple samples from the Southwest show fiber length longer than a year ago. Shirley Analyzer nonlint content and picker and card waste are higher. Yarn appearance grades and imperfections are lower than a year ago. Average spinning potential number is lower.

Averages for all medium staple samples tested to date, show approximately the same fiber properties as a year ago. Yarns spun from these samples also show similar test results as a year ago, except more yarn imperfections were found.

Southeast medium staple samples tested show coarser fibers than a year ago. Shirley Analyzer results show higher nonlint content this season. Yarns spun from these samples show more imperfections compared with last season. Spinning potential yarn number is lower.

South Central medium staple samples tested are weaker at zero gage strength than a year ago. Yarns spun from these samples account for more imperfections at this time of the year.

Southwest medium staple samples tested to date show fiber strength to be weaker than a year ago. Picker and card waste is less. Yarns spun from these samples show lower appearance grades and more imperfections than last season. Average spinning potential yarn number is lower.

Medium staple samples from the West show fiber strength to be stronger than a year ago. Yarns spun from these samples are stronger, with lower appearance grades. Imperfections are higher than a year ago.

Averages for all long staple samples tested to date show coarser fibers than a year ago. Yarns spun from these samples show higher appearance grades and fewer imperfections than last season.

Long staple samples tested from the Southeast are coarser and weaker than last season. Yarns spun from these samples show higher appearance grades for both carded and combed yarns than a year ago. Yarn imperfections are fewer for carded yarns.

South Central long staple samples show shorter fiber length and weaker fibers on zero gage strength. Comber waste is higher than a year ago. Yarns spun from these samples are weaker, but show higher appearance grades. Imperfections are more than a year ago for carded yarns. Average spinning potential yarn number is lower.

Long staple samples tested from the West to date are shorter, coarser and stronger than a year ago. Comber waste is less. Yarns spun from these samples are stronger and appearance grades higher than a year ago. Imperfections are fewer and spinning potential yarn number is higher than last season.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 16, 1973

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results												
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.	Yarn No.								
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex			Pct.	Lbs.	Index	No.				
				Inches			Pct.	Rdg.			Mpsi	G/tex					Pct.	Lbs.	Index	No.
No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	22s	Carded	Yarn	Yarn No.									
Short Staple: Southwest	19	.98	45	4.4	83	21	3.0	5.8	96	118	23	48								
	17	1.00	46	4.5	84	21	3.8	6.4	98	111	20	45								
Medium Staple: Southeast	42	1.09	45	4.3	83	23	2.9	6.0	105	104	16	68								
	24	1.08	46	4.6	83	22	3.5	5.8	105	108	22	64								
South Central	110	1.09	45	4.5	85	23	2.8	6.0	105	110	17	65								
	80	1.10	45	4.6	83	22	2.9	5.7	104	112	19	63								
Southwest	27	1.07	46	4.5	84	22	2.9	6.0	103	121	22	63								
	27	1.08	45	4.4	81	22	2.7	5.5	100	100	24	60								
West	23	1.11	45	4.4	92	25	2.3	5.2	116	121	15	70								
	21	1.11	46	4.5	94	25	2.1	5.2	120	107	19	70								
U.S. Average	202	1.09	46	4.4	85	23	2.8	5.9	106	112	18	66								
	152	1.10	45	4.6	84	23	2.8	5.6	106	109	21	64								
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3								

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
1/ (Continued)  
through November 16, 1973

Staple group, Area, and Crop year	Lots	Fiber Test Results							Processing Test Results													
		Length		Unif	Mike	Strength Zero 1/8" gage	SA Non- lint	P&C Waste	Comber Waste	Yarn Quality				No.	SPY							
		Span	In.							Pct.	Rdg.	Mpsi	G/tx			Pct.	Lbs. carded	Lbs. combed	Indx carded	Indx combed	Imprfctns card	comb
22s Carded & Combed Yarn																						
50's Combed Yarn																						
American Pima																						
Array																						
Extra Long Staple:																						
West																						
Long Staple: Southeast	12	1.12	43	4.4	86	24	3.7	8.6	17.1	107	124	101	116	20	9	69						
	7	1.12	45	4.6	82	23	3.8	8.4	17.3	106	121	121	128	16	8	71						
South Central	3	1.17	45	4.3	89	24	4.1	8.6	15.6	117	133	103	113	16	8	75						
	4	1.14	44	4.4	86	24	3.8	8.4	17.3	109	127	120	130	18	8	67						
West	6	1.18	45	3.8	92	26	2.4	7.0	15.1	130	149	93	101	24	12	86						
	4	1.15	46	4.1	94	27	2.1	6.8	14.6	139	155	108	122	14	7	90						
U.S. Average	21	1.14	44	4.2	88	24	3.4	8.1	16.3	115	132	99	110	20	10	74						
	15	1.13	45	4.4	87	24	3.4	8.0	16.6	116	132	117	127	16	8	75						
Extra Long Staple:																						
West																						
Significant Difference 2/	3	1.47	32	3.8	100	32	1.9	7.3	17.6	63			113			4						
	1	1.46	30	3.9	96	32	2.9	7.4	18.5	62			120			3						

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns											
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C		Strength		Elongation		Appearance Index		Imprfct's		Spin. Potent- ial		
				2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel	Waste	8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx		22s or 27 tx	
No	Grade	Name & Code	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No			
SOUTHWEST AREA																									
CENTRAL TEXAS																									
PRINCETON																									
2	LM			51	32	1.02	46	4.6	86	22	LANKART LX 57L	5.9	3.3	4	3	6.7	298	97	7.2	6.3	130	110	17	16	46
WACO																									
3	LM LT SP			52	32	1.01	46	4.8	87	23	LANKART LX 57L	5.8	3.6	5	3	6.6	298	100	7.2	6.5	130	110	14	12	53
NORTHWEST TEXAS																									
LENORAH																									
1	SM			21	31	0.91	44	4.0	85	19	WESTERN STORMPROOF	5.8	2.0	1	4	4.9	277	88	7.5	6.3	120	100	15	13	37
STAMFORD																									
1	SLM LT SP			42	31	0.98	47	4.7	87	22	LANKART LX 57L	6.5	3.0	2	3	5.8	300	96	7.7	6.2	120	110	22	17	46



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Staple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial	
				2.5% span	Unif.		Zero Gage	Mpsi			G/tex	Pct		Gra	Yel	Lbs 27 tx	Lbs 50s or 12 tx	Pct	Pct	No 22s or 27 tx	No 50s or 12 tx		No 22s or 27 tx
SOUTHEAST AREA																							
ALABAMA																							
CULLMAN																							
1	SLM	41	34	1.03	45	4.5	83	21	6.4	2.5	2	3	5.1	94	28	6.1	4.3	110	80	14	9	53	
HARPERSVILLE																							
1	SLM	41	34	1.09	44	4.4	85	22	6.6	2.6	3	3	5.4	102	32	6.5	4.5	100	80	19	14	57	
SYLACAUGA																							
1	SLM	41	34	1.05	44	4.2	85	22	7.5	3.1	2	2	5.1	101	31	6.6	4.6	100	80	19	13	58	
TYLER																							
2	SLM	41	35	1.11	47	4.7	81	23	6.4	3.8	2	2	5.2	110	37	6.3	5.0	120	90	17	13	63	
GEORGIA																							
ROSTWICK																							
2	SLM LT SP	42	33	1.03	47	4.7	85	21	6.0	4.3	3	4	6.0	96	30	5.7	4.3	120	90	18	14	53	
TENNILLE																							
2	SLM	41	35	1.13	44	4.1	78	23	6.7	2.9	2	3	5.0	107	35	6.4	4.7	90	70	28	23	62	
NORTH CAROLINA																							
SHELBY																							
2	SLM	41	35	1.07	45	4.7	84	23	6.1	3.4	3	3	8.8	106	34	6.7	4.5	130	90	15	11	59	
SOUTH CAROLINA																							
MULLINS																							
2	SLM	41	35	1.12	45	4.8	78	21	6.9	3.7	1	2	5.3	109	36	6.6	4.8	90	70	23	21	69	
ST MATTHEWS																							
2	SLM	41	34	1.11	45	5.0	85	22	6.6	2.9	2	3	7.0	101	33	6.3	4.8	130	90	16	11	62	
SOUTH CENTRAL AREA																							
ARKANSAS																							
ALTHEIMER																							
2	SLM	41	35	1.14	45	4.8	81	24	7.4	2.7	2	3	5.6	110	36	6.6	5.0	110	70	29	24	67	
RAY																							
2	SLM	41	34	1.08	44	4.4	85	23	6.4	3.5	2	3	6.6	107	34	6.7	4.9	120	90	14	12	67	
CRAWFORDVILLE																							
2	SLM	41	35	1.11	45	4.5	82	21	7.8	3.3	2	3	7.2	102	33	6.9	4.8	120	100	8	7	62	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns											
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength	Elongation		Appearance Index	Imprfct's		Spin. Potent-					
No	Grade	Stple	32s In	2.5% span	Unif.		Mpsi	G/tex			Pct	Pct			Gra	Yel		Pct	Lbs		Pct	Pct	No	No	22s or 27 tx
SOUTH CENTRAL AREA--(Continued)																									
ARKANSAS--(Continued)																									
DUMAS																									
2	SLM	41	35	1.10	47	5.0	80	22	6.3	213	3.4	2	3	5.1	100 PERCENT	103	33	6.2	4.5	110	90	17	14	63	
HELENA																									
1	LM	51	34	1.09	44	4.7	85	22	6.1	213	3.1	4	3	7.0	100 PERCENT	102	32	6.2	4.6	120	90	13	10	65	
LEACHVILLE																									
2	SLM	41	34	1.10	45	4.3	85	23	6.0	#4	2.4	2	3	6.9	100 PERCENT	104	33	6.2	4.4	110	80	19	18	66	
LEACHVILLE																									
2	SLM	41	34	1.10	45	4.7	82	22	6.6	213	2.6	2	3	7.2	100 PERCENT	104	34	6.8	4.9	130	80	19	15	71	
LEPANTO																									
2	SLM	41	35	1.14	45	4.6	82	23	7.3	16	2.8	2	3	7.0	100 PERCENT	111	37	7.2	4.9	120	90	16	13	67	
NEWPORT																									
1	MID	31	34	1.07	46	4.8	85	23	6.4	213	1.4	2	3	6.1	95 PERCENT	100	32	6.0	4.5	130	100	6	5	57	
CSCEOLA																									
2	SLM	41	34	1.10	44	4.2	84	21	5.6	7A	5.0	2	3	8.3	100 PERCENT	97	29	6.2	4.4	100	80	23	19	61	
VICTORIA																									
2	SLM	41	35	1.11	45	4.3	84	23	6.4	213	3.0	2	3	7.5	100 PERCENT	112	38	7.1	5.1	100	90	18	15	70	
WILSON																									
2	SLM	41	35	1.13	44	4.0	79	24	7.8	16	3.1	1	2	6.3	100 PERCENT	117	42	7.1	5.7	110	80	19	13	77	
LOUISIANA																									
ALEXANDRIA																									
1	SLM	41	34	1.09	46	4.9	76	21	6.3	213	3.0	4	4	7.8	75 PERCENT	85	24	6.0	3.7	110	90	19	17	53	
MCNROE																									
1	SLM LT SP	42	35	1.14	44	4.6	80	22	7.7	16	3.3	3	4	5.8	100 PERCENT	94	30	6.5	4.9	80	60	29	26	55	
SICILY ISLAND																									
1	LM PLUS	50	35	1.12	46	4.6	80	23	6.6	213	4.0	2	3	6.0	100 PERCENT	99	32	6.6	4.5	110	80	23	14	57	
MISSISSIPPI																									
ARCOLE																									
2	SLM	41	35	1.14	44	4.4	78	23	7.7	16	2.5	1	2	4.5	100 PERCENT	113	38	7.2	5.3	110	80	18	14	70	
BELZONI																									
2	SLM	41	35	1.14	43	4.1	79	22	8.0	16	3.5	2	1	7.2	100 PERCENT	115	38	7.3	5.3	120	90	11	6	67	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprct's		Spin- Poten- tial	
				2.5% span	Unif.		Zero Gage	Mpsi			G/tex	Pct		Gr	Yel	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		27 tx
SOUTH CENTRAL AREA--(Continued)																							
MISSISSIPPI--(Continued)																							
BRUCE																							
2	SLM	41	34	1.05	45	4.6	80	21	6.9	2.7	2	3	5.0	97	31	6.5	4.8	110	80	16	10	65	
GREENWOOD																							
2	LM	51	34	1.09	44	4.8	82	22	6.4	3.3	3	3	6.6	97	30	6.3	4.3	90	70	19	13	57	
INDIANOLA																							
2	SLM	41	35	1.11	44	4.7	81	24	6.9	3.6	2	2	5.8	100	31	6.3	4.4	120	90	14	10	60	
INDIANOLA																							
2	SLM	41	35	1.08	45	4.9	79	21	6.2	2.4	2	3	7.2	98	30	5.8	4.1	120	90	10	8	57	
LAKE CORMORANT																							
1	SLM	41	36	1.14	44	4.1	80	22	7.6	3.0	2	3	6.9	111	38	7.2	5.4	120	90	13	12	71	
LYCN																							
2	SLM	41	34	1.10	45	5.0	84	22	6.3	3.4	3	3	6.4	98	31	6.3	4.8	130	90	10	8	59	
MACON																							
2	SLM	41	35	1.09	44	4.2	81	22	8.0	2.7	1	3	6.0	107	35	6.7	5.0	130	100	12	9	68	
PANTHER BURN																							
1	LM	51	35	1.15	44	4.6	80	22	7.1	4.0	3	2	6.6	105	35	6.8	5.2	100	70	30	21	67	
SCOTT																							
1	SLM	41	35	1.12	43	4.3	81	23	7.4	2.7	2	2	5.3	110	37	7.1	5.3	90	70	22	18	68	
TRIBBETT																							
2	SLM	41	35	1.11	45	4.9	91	23	5.0	3.0	2	3	7.1	103	31	5.7	3.9	130	90	13	11	65	
TUNICA																							
1	SLM	41	34	1.10	45	4.6	83	23	6.4	2.7	2	3	5.1	96	29	6.0	4.1	100	70	17	13	58	
MISSOURI																							
BELL CITY																							
2	SLM	41	34	1.06	44	4.0	80	21	6.8	2.4	2	3	6.5	98	31	7.3	5.4	110	80	13	7	59	
CAMPBELL																							
2	SLM	41	34	1.05	45	4.6	86	22	6.5	2.7	2	3	5.2	96	28	6.2	4.2	110	90	22	17	55	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct's		Spin- Poten- tial
No	Grade	Stple	32s	In	Pct		Rdg	Mpsi		G/tex	Pct	Pct	Gra		Yel	Pct	22s or 27 tx	Lbs	Pct	Pct	22s or 27 tx	No	
SOUTH CENTRAL AREA--(Continued)																							
MISSOURI-- (Continued)																							
PORTAGEVILLE																							
2 SLM	41	34	1.07	44	4.5	84	21	6.7	2.3	2	3	4.8	95 PERCENT		93	28	6.3	4.3	90	70	21	16	53
SENATH																							
2 SLM	41	34	1.09	45	3.9	79	20	7.0	2.7	2	3	5.6	100 PERCENT		96	30	6.5	4.7	90	70	36	30	61
STEELE																							
1 SLM	41	34	1.09	45	4.9	83	23	6.6	3.0	2	3	5.3	95 PERCENT		100	30	6.2	4.3	110	80	12	10	59
TENNESSEE																							
DYERSBURG																							
2 SLM	41	34	1.07	47	4.8	80	22	6.8	1.6	2	3	5.7	90 PERCENT		96	31	6.2	4.6	130	90	11	9	63
GADSDEN																							
2 MID	31	34	1.09	45	4.7	80	22	7.7	2.4	1	3	4.0	90 PERCENT		102	32	6.5	4.9	120	90	11	9	58
SOUTHWEST AREA																							
CENTRAL TEXAS																							
CRICKETT																							
3 SLM LT SP	42	34	1.04	46	4.9	87	20	5.9	3.2	5	3	8.3	80 PERCENT		91	29	5.5	4.1	120	90	18	15	55
ROSENBERG																							
3 SLM LT SP	42	33	1.09	45	5.1	78	22	6.7	3.7	4	3	5.2	66 PERCENT		86	24	5.3	3.6	100	70	18	11	51
WEST AREA																							
ARIZONA																							
BOWIE																							
1 MID	31	35	1.07	45	4.8	81	22	6.8	1.2	1	4	7.0	97 PERCENT		100	30	6.5	4.5	120	90	8	6	57
STANFIELD																							
1 SM	21	34	1.06	43	4.8	86	23	6.9	1.8	0	3	6.8	100 PERCENT		98	29	6.5	4.5	110	70	22	16	53
CALIFORNIA																							
RAKERSFIELD																							
2 MID	31	35	1.11	49	4.7	94	26	5.5	1.8	1	4	6.2	100 PERCENT		126	45	6.2	4.7	120	100	8	7	79
CHENCHILLA																							
1 SLM	41	36	1.10	46	4.1	99	26	4.8	2.3	2	3	7.2	99 PERCENT		131	46	5.7	4.5	110	90	16	10	79



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973---(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns										
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent- ial	
No	Grade	Stple	32s	In	Pet	Rdg	Mpsi	G/tex	Pet	Pet	No	Yel	Gra	No	Pet	Lbs	Lbs	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No		No
WESTERN AREA--(Continued)																								
CALIFORNIA--(Continued)																								
COALINGA																								
1	MID	31	35	1.13	47	4.6	95	ACALA SJ-1	26	5.2	1.4	1	3	3.8	100 PERCENT	126	45	6.0	4.7	100	80	12	8	74
DOS PALOS																								
1	MID	31	35	1.11	47	4.5	96	ACALA SJ-1	26	4.9	2.3	1	3	4.5	100 PERCENT	125	44	5.8	4.3	100	80	17	11	77
HANFORD																								
1	MID	31	35	1.13	46	4.5	97	ACALA SJ-1	26	5.1	1.9	1	3	4.8	100 PERCENT	127	43	5.8	4.6	100	80	15	12	74
KERNAN																								
1	MID	31	35	1.12	48	4.6	96	ACALA SJ-1	27	5.2	2.1	1	3	4.4	96 PERCENT	128	45	5.8	4.5	100	90	14	12	76
MENDOTA																								
1	SLM	41	36	1.15	47	4.3	95	ACALA SJ-1	27	5.5	3.2	1	3	5.0	100 PERCENT	127	48	6.4	4.7	100	80	14	11	81
PIXLEY																								
1	MID	31	35	1.08	45	4.5	98	ACALA SJ-1	25	5.2	2.1	2	3	4.9	100 PERCENT	118	39	5.6	4.2	90	70	25	19	59
STRATFORD																								
1	MID	31	35	1.12	44	4.2	97	ACALA SJ-1	26	6.1	2.2	1	3	4.5	100 PERCENT	125	43	6.2	4.7	90	70	23	20	70
TULARE																								
2	SLM	41	35	1.13	45	4.1	98	ACALA SJ-1	26	5.7	2.6	2	3	6.7	100 PERCENT	125	44	6.2	4.7	110	80	12	11	78
WEST TEXAS																								
PECOS																								
1	MID LT SP	32	34	1.04	47	5.3	81	STONEVILLE	21	6.7	2.0	1	4	4.9	100 PERCENT*	95	30	6.3	4.9	120	90	36	23	52

\* 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint		Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial		
				2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		No	No
SOUTHEAST AREA																									
ALABAMA																									
8FLEVVILLE																									
51	34	1.10	45	4.6	76	21	8.2	5.0	3	3	9.3	80 PERCENT		97	31	6.6	5.1	130	100	13	11	65			
										*	18.0	113	39	7.3	5.7	130	110	5	3						
GERALDINE																									
41	34	1.12	42	4.1	87	23	6.8	1.7	2	3	7.0	100 PERCENT		107	35	6.3	4.6	110	80	20	16	62			
										*	17.9	125	59	6.5	5.5	130	100	9	9						
NORTH CAROLINA																									
MORVEN																									
51	35	1.13	46	4.4	87	24	6.6	5.5	3	3	8.8	90 PERCENT		117	39	6.8	5.1	110	90	16	13	81			
										*	16.5	131	47	6.8	5.4	120	110	8	6						
SOUTH CENTRAL AREA																									
MISSISSIPPI																									
MORGAN CITY																									
51	36	1.19	42	3.8	86	24	6.4	5.0	2	2	9.6	100 PERCENT		118	41	6.6	4.8	110	90	23	17	76			
										*	17.6	132	49	7.0	5.4	130	100	11	8						
TENNESSEE																									
TRENTON																									
41	34	1.10	44	4.4	82	24	6.6	2.6	2	3	8.2	80 PERCENT		96	30	5.8	4.6	120	100	10	10	61			
										*	17.8	114	39	6.5	4.9	130	100	5	5						
WEST AREA																									
NEW MEXICO																									
ARTESIA																									
31	36	1.14	45	3.8	92	26	6.5	1.5	0	3	6.7	77 PERCENT		135	47	6.2	4.8	100	90	13	13	84			
										*	16.3	153	56	6.8	5.3	120	100	7	5						
DEXTER																									
1 MID																									
31	37	1.14	45	4.0	94	28	7.3	1.7	1	4	6.6	100 PERCENT 1/		141	49	6.3	5.1	110	90	12	7	90			
										*	13.6	157	57	6.8	5.4	130	100	4	4						
LAS CRUCES																									
1 SLM																									
41	37	1.17	47	4.4	97	27	6.1	2.9	1	3	6.9	100 PERCENT 1/		140	51	6.5	5.2	110	90	10	9	89			
										*	14.4	155	58	6.8	5.2	120	100	7	5						

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										
No	Sample Number		Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Comber Waste	Strength		Elongation	Appearance Index	Imprfect'ns		Spin. Potential				
	Grade	Name & Code		2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx			22s or 27 tx	50s or 12 tx		22s or 27 tx	50s or 12 tx		
				In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	No	No	No	No				
WESTERN AREA--(continued)																								
WEST TEXAS				90 PERCENT																				
EL PASO				ACALA 1517-70																				
1 SLM				41	37	1.14	45	4.3	95	28	6.0	2.2	1	3	7.0	139	50	6.4	4.9	110	90	19	15	97
													*			14.3	156	59	6.8	5.3	120	100	9	6

1/ 100 percent selected for tests, less than 100 percent in the area

\* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification &				Fiber Test Results										Processing Test Results - Combed Yarns									
Sample Number		Array Length		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns				
		UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx					
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No			
WEST AREA																							
WEST TEXAS																							
PECOS																							
1	3	44		1.46	30	3.9	96	32	7.6	2.9	4	5	7.4	18.5	62	33	5.6	4.8	120	120	3	1	
										PIMA S-4										100 PERCENT *			

\* 100 percent selected for tests, less than 100 percent in the area